



IFWO

RAW SEQUENCE LISTING

DATE: 10/01/2004

PATENT APPLICATION: US/10/687,268

TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

4 <110> APPLICANT: Agarwal, Pankaj
 5 Lee, Judithann M.
 6 Smith, Randall F.
 7 White, John R.
 10 <120> TITLE OF INVENTION: NOVEL COMPOUNDS
 13 <130> FILE REFERENCE: GP50029-1
 15 <140> CURRENT APPLICATION NUMBER: 10/687,268
 16 <141> CURRENT FILING DATE: 2003-10-15
 18 <150> PRIOR APPLICATION NUMBER: 60/213,161
 19 <151> PRIOR FILING DATE: 2000-06-22
 21 <150> PRIOR APPLICATION NUMBER: 60/213,156
 22 <151> PRIOR FILING DATE: 2000-06-22
 24 <150> PRIOR APPLICATION NUMBER: PCT/US01/19929
 25 <151> PRIOR FILING DATE: 2001-06-22
 27 <150> PRIOR APPLICATION NUMBER: 10/312,088
 28 <151> PRIOR FILING DATE: 2002-12-20
 30 <160> NUMBER OF SEQ ID NOS: 46
 32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 1383
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 1



40 atgcttgga tttggattgt tgcattcttg ttctttggca catcaagagg aaaagaagtt 60
 41 tgctatgaaa ggtaggggtg tttcaaagat ggtttaccat ggaccaggac tttctcaaca 120
 42 gagttggtag gtttaccctg gtctccagag aagataaaca ctgctttcct gctctacact 180
 43 atacacaatc ccaatgecta tcaggagatc agtgcggtta attcttcaac tatccaagcc 240
 44 tcatattttg gaacagacaa gatcaccctg atcaacatag ctggatggaa aacagatggc 300
 45 aaatggcaga gagacatgtg caatgtgttg ctacagctgg aagatataaa ttgcattaat 360
 46 ttagattgga tcaacgggtc acgggaatac atccatgctg taaacaatct ccgtgttggt 420
 47 ggtgctgagg tggcttattt tattgatgtt ctcatgaaaa aatttgaata tcccccttct 480
 48 aaagtgcact tgattggcca cagcttgagg gcacacctgg ctggggaagc tgggtcaagg 540
 49 ataccaggcc ttggaagaat aactgggttg gacccagctg ggccattttt ccacaacact 600
 50 ccaaaggaag tcaggctaga cccctcggat gccactttg ttgacgttat tcatacaaat 660
 51 gcagctcgca tctcttttga gcttggtgtt ggaaccattg atgcttgttg tcatcttgac 720
 52 ttttacccaa atggagggaa gcacatgcca ggatgtgaag acttaattac acctttactg 780
 53 aaatttaact tcaatgctta caaaaaagaa atggcttcct tctttgactg taaccatgcc 840
 54 cgaagttatc aattttatgc tgaaagcatt cttaatcctg atgcatttat tgcttatcct 900
 55 tgtagatcct acacatcttt taaagcaggt catgtgttag gatgtgcaga tttgttacat 960
 56 aggatagata agataggaag tcataacttc catgtgtttt taaccttttc tctcccttct 1020
 57 cttcttgttt ccttatatct aggttgagg cacaaattgt ctgttaaact cagtggagc 1080
 58 gaagtcactc aagggaactgt ctttcttcgt gtaggcgggg cagttaggaa aactggggag 1140
 59 tttgccattg tcagtggaaa acttgagcca ggcattgact acacaaaatt aatcgatgca 1200

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/687,268

DATE: 10/01/2004

TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

```

60 gatgttaacg ttggaacat tacaagtgtt cagttcatct ggaaaaaaca tttgtttgaa 1260
61 gattctcaga ataagttggg agcagaaatg gtgataaata catctgggaa atatggatat 1320
62 aaatctacct tctgtagcca agacattatg ggacctaata ttctccagaa cctgaaacca 1380
63 tgc 1383
65 <210> SEQ ID NO: 2
66 <211> LENGTH: 927
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo sapiens
70 <400> SEQUENCE: 2
71 atgccgttcc tgcagctgaa agggagagca acacctccat cctggagaca cgatagccgc 60
72 tcaactgttc acctgctgga cggcaaggag ggcgtgtggg acaccacggg ctatgcctta 120
73 gggagcagag aatcattgaa tcctgacatg gggattggtg acccacatgg acacagcact 180
74 gtccacacca gggaagcagg cactgcctgt ccattacagc ttctaggtgc tggggaggcc 240
75 agtctgctgg cctgtgggat ctgccaggcc tctggccaaa tcttcatcac ccaaaccctg 300
76 gggatcaagg gatatcggag tgtcgtggcc ctggataagg tccctgagga tgttcaggaa 360
77 tacagctggt actggggtgc aaacgacagc gcaggaaaca tgattatcag ccacaaccg 420
78 cccagtgcgc agcagcctgg gcccatgtac actggcaggg agagagtga cagagaaggc 480
79 agcctgttga tcaggccgac tgcattaaat gacacgggaa actacactgt tgggtgggt 540
80 gcaggcaatg agacccaaag agcaaccggc tggctggagg ttctagatgg gcccgaactat 600
81 gtgctgctga ggagcaatcc tgatgatttc aacggcattg tgacagctga gatcggtccc 660
82 caagtggaaa tggagtgtat ctgctattcc ttctggatc tcaagtacca ctggatccac 720
83 aatggctccc tctgaactt ctcatatgca aagatgaacc tctcgagtct tgctgggag 780
84 cagatgggccc gttaccgatg cactgtggag aacccctga cacagctgat catgtacatg 840
85 gacgtcagga tccaggcccc ccatgagtgc agcagctccc ctccaggctc atgctttgca 900
86 catctccctg cctccatgcc ctgctag 927
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 1374
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 3
94 atggaccttt ccagaccag atggagcctg tggaggaggg tcttccctcat ggccagtctg 60
95 ctggcctgtg ggatctgcca ggcctctggc caaatcttca tcaaaaaaac cctggggatc 120
96 aagggatata ggactgtcgt ggccctggat aaggtccctg aggatgttca ggaatacagc 180
97 tgggtactgg gtgcaaacga cagcgcagga aacatgatta tcagccacaa accgcccagt 240
98 gcccagcagc ctgggcccac gtacactggc agggagagag tgaacagaga aggcagcctg 300
99 ttgatcaggc cgactgcatt aaatgacagc ggaaactaca ctgttcgggt ggttgcaggc 360
100 aatgagaccc aaagagcaac cggctggctg gaggttctag agttgggaag caatctgggc 420
101 atctccgtca atgccagctc cctgggtggg aacatggatt ctgtggctgc tgactgcctc 480
102 acaaatgtca ccaacatcac gtggtatgtg aatgatgtgc ctacctctag tagtgaccgg 540
103 atgacaatth cccagacgga caagaccctc gtcacctca gggtcagccg ctatgacaga 600
104 acaattcagt gcatgataga gagtttccca gagatcttcc agagaagtga acgcatctct 660
105 ctgactgtgg cctatgggccc cgactatgtg ctgctgagga gcaatcctga tgatttcaac 720
106 ggcattgtga cagctgagat cggctcccaa gtggaaatgg agtgtatctg ctattccttc 780
107 ctggatctca agtaccactg gatccacaat ggctccctcc tgaacttctc agatgcaaag 840
108 atgaacctct cgagtcttgc ctgggagcag atgggcccgt accgatgcac tgtggagaac 900
109 cccgtgacac agctgatcat gtacatggac gtcaggatcc agggccccc tgagtgtcct 960
110 cttccttcag gcatcttacc tgttgtccac agagatttct ccatctcagg atccatgggt 1020
111 atgttctcca tcatgctgac agtgcctggg ggcgtttaca tctgtggagt cctgatccat 1080
112 gctctgatca accactactc aatcagggtc cctcattgct ctgggacaag ggtgggatgt 1140

```

RAW SEQUENCE LISTING

DATE: 10/01/2004

PATENT APPLICATION: US/10/687,268

TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

```

113 tggctggggg ctgggactca ggagccagcc ctccctccag aggggaagca gagccagaag 1200
114 gggagggata agccaggaac taggttgtca gggatcatct ggggcagaca gatcagcccc 1260
115 caggacctga agctgatggg agcaagagag gggttagagt cggccatggg tctaaatagc 1320
116 tgtggggttt cttctagcaa cttcccttct ctttgtgttt ataaggata ttaa 1374

```

118 <210> SEQ ID NO: 4

119 <211> LENGTH: 2115

120 <212> TYPE: DNA

121 <213> ORGANISM: Homo sapiens

123 <400> SEQUENCE: 4

```

124 atgctccatg atgggttgac tgcacctgat ggggtgtgaa tctacagcct gaccgggagg 60
125 gaagtcctga cgcccttccc aggattgggc actgcggcag ccccggcaca gggcggggcc 120
126 cacctgaagc agtgtgacct gctgaagctg tcccggcggc agaagcagct ctgcccagg 180
127 gagcccgccc tggctgagac cctgagggat gctgcgcacc tgggctgct tgagtgccag 240
128 ttccagttcc ggcctgagcg ctggaactgt agcctggagg gcaggatggg cctgctcaag 300
129 agaggcttca aagagacagc tttcctgtac gcgggtgtct ctgccgccct caccacacc 360
130 ctggccccggg cctgcagcgc tgggcgcagt gaggcgtgca cctgtgatga ctctccgggg 420
131 ctggagagcc ggcaggcctg gcagtggggc gtgtgcgggt agaggaaaca aggacctgcg ggcacgggca 480
132 aagtttctga gcaacttctt ggggtccaag agaggaaaca aggacctgcg ggcacgggca 540
133 gacgcccaca ataccacgtt gggcatcaag gctgtgaaga gtggcctcag gaccacgtgt 600
134 aagtgccatg gcgtatcagg ctctgtgcc gtgcgcacct gctggaagca gctctccccg 660
135 ttccgtgaga cgggcccagg gctgaaactg cgtatgact cggctgtcaa ggtgtccagt 720
136 gccaccaatg aggccttggg ccgcctagag ctgtgggccc ctgccaggca gggcagcctc 780
137 accaaaggcc tggccccaag gtctggggac ctgggtgtaca tggaggactc acccagcttc 840
138 tgccggccca gcaagtactc acctggcaca gcaggtaggg tgtgctcccg ggaggccagc 900
139 tgcagcagcc tgtgctgcgg gcggggctat gacaccacga gccgcctggg ggccttctcc 960
140 tgccactgcc aggtgcagtg gtgtgcttac gtggagtgcc agcaatgtgt gcaggaggag 1020
141 cttgtgtaca cctgcaagca ctataggggc cctgtggggg tcccagggca gtgccaggga 1080
142 gccttctttg agagcagccc tgggcagacc agggcccgcg tgaccgggag ggaagtctg 1140
143 acgccccttc caggattggg cactgcggca gcccggcac agggcggggc ccacctgaag 1200
144 cagtgtgacc tgetgaagct gtcccggcgg cagaagcagc tctgccggag ggagcccggc 1260
145 ctggctgaga cctgaggga tgetgcgcac ctggcctgc ttgagtcca gtttcagttc 1320
146 cggcatgagc gctggaactg tagcctggag ggcaggatgg gcctgctcaa gagaggcttc 1380
147 aaagagacag ctttctgtta cgcgtgttcc tctgccgccc tcaccacac cctggcccgg 1440
148 gcctgcagcg ctgggcgcat ggagcgctgc acctgtgatg actctccggg gctggagagc 1500
149 cggcaggcct ggcagtgggg cgtgtgcggg gacaacctca agtacagcac caagtttctg 1560
150 agcaacttcc tggggtccaa gagaggaaac aaggacctgc gggcacgggc agacgcccac 1620
151 aataccacag tgggcatcaa ggctgtgaag agtggcctca ggaccacgtg taagtgccat 1680
152 ggcgtatcag gctcctgtgc cgtgcgcacc tgetggaagc agctctcccc gttccgtgag 1740
153 acgggcccagg tgetgaaact gcgctatgac tggctgtca aggtgtccag tgccaccaat 1800
154 gaggccttgg gccgcctaga gctgtgggcc cctgccaggc agggcagcct caccaaaggc 1860
155 ctggccccaa ggtctgggga cctggtgtac atggaggact caccagctt ctgcccggcc 1920
156 agcaagtact cacctggcac agcaggtagg gtgtgctccc gggaggccag ctgcagcagc 1980
157 ctgtgctgcg ggcggggcta tgacaccacg agccgcctgg tggccttctc ctgccactgc 2040
158 cagggtgcag ggtgctgcta cgtggagtgc cagcaatgtg tgcaggagga gcttgtgtac 2100
159 acctgcaagc actag 2115

```

161 <210> SEQ ID NO: 5

162 <211> LENGTH: 1086

163 <212> TYPE: DNA

164 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/687,268

DATE: 10/01/2004

TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

166 <400> SEQUENCE: 5

```

167 atgaagcccc tgaggaggcc ccttccttc atttgccct caccaccatc cccaaggctc 60
168 acctgtctcc ctctctctgc tctctctagc ctgaccgggc gggaagtcct gacgcccttc 120
169 ccaggattgg gcactgcggc agccccggca cagggcgggg cccacctgaa gcagtgtgac 180
170 ctgctgaagc tgtcccgccg gcagaagcag ctctgccgga gggagcccg cctggctgag 240
171 accctgaggg atgctgcgca cctcgccctg cttgagtgcc agtttcagtt ccggcatgag 300
172 cgctggaact gtagcctgga gggcaggatg ggcctgctca agagaggctt caaagagaca 360
173 gctttcctgt acgcggtgtc ctctgccgcc ctcaccacac cctggcccg ggctgcagc 420
174 gctgggcgca tggagcgctg cacctgtgat gactctccgg ggctggagag ccggcaggcc 480
175 tggcagtggg gcgtgtgcgg tgacaacctc aagtacagca ccaagtttct gagcaacttc 540
176 ctgggggtcca agagagggaa caaggacctg cgggcacggg cagacgcca caataccac 600
177 gtgggcatca aggctgtgaa gagtggcctc aggaccacgt gtaagtgcc tggcgtatca 660
178 ggctcctgtg ccgtgcgcac ctgctggaag cagctctccc cgttcctga gacgggccag 720
179 gtgctgaaac tgcgctatga ctcggtgtgc aaggtgtcca gtgccacca tgaggccttg 780
180 ggccgcctag acctgtgggc cctgccagg cagggcagcc tcaccaaagg cctggcccca 840
181 aggtctgggg acctggtgta catggaggac tcaccagct tctgccggcc cagcaagtac 900
182 tcacctggca cagcaggtag ggtgtgctcc cgggaggcca gctgcagcag cctgtgctgc 960
183 gggcggggct atgacacca gagccgctg gtggccttct cctgccactg ccagggtgag 1020
184 tgggtgctgt acgtggagtg ccagcaatgt gtgcaggagg agcttgtgta cacctgcaag 1080
185 cactag 1086

```

187 <210> SEQ ID NO: 6

188 <211> LENGTH: 1098

189 <212> TYPE: DNA

190 <213> ORGANISM: Homo sapiens

192 <400> SEQUENCE: 6

```

193 atgtggctgc ttttaacaac aacttgtttg atctgtggaa ctttaaatgc tgggtggattc 60
194 cttgatttgg aaaatgaagt gaatcctgag gtgtggatga atactagtga aatcatcatc 120
195 tacaatggct acccctatga agagtatgaa gtcaccactg aagatgggta tatactcctt 180
196 gtcaacagaa ttccttatgg gcgaacacat gctaggagca cagcagatgc aggttatgat 240
197 gtatggatgg gaaacagtcg gggaaacact tggccaagaa gacacaaaac actctcagag 300
198 acagatgaga aattctgggc ctttagtttt gatgaaatgg ccaaatatga tctcccagga 360
199 gtaatagact tcattgtaaa taaaactggt caggagaaat tgtatttcat tggacattca 420
200 cttggcacta caatagggtt tgtagcctt tccaccatgc ctgaactggc acaaagaatc 480
201 aaaatgaatt ttgccttggg tcctacgac tcattcaaat atcccacggg catttttacc 540
202 aggttttttc tacttccaaa ttccataatc aaggctgttt ttggtacca aggtttcttt 600
203 ttagaagata agaaaacgaa gatagcttct accaaaatct gcaacaataa gatactctgg 660
204 ttgatatgta gcgaatttat gtccttatgg gctggatcca acaagaaaaa tatgaatcag 720
205 agtcgaatgg atgtgtatat gtcacatgct cccactgggt catcagtaca caacattctg 780
206 catataaaac agctttacca ctctgatgaa ttcagagctt atgactgggg aatgacgct 840
207 gataatatga aacattacaa tcagagtcac cccctatat atgacctgac tgccatgaaa 900
208 gtgcctactg ctatttgggc tgggtggacat gatgtcctcg taacacccca ggatgtggcc 960
209 aggatactcc ctcaaatcaa gagtcttcat tactttaagc tattgccaga ttggaaccac 1020
210 tttgattttg tctggggcct cgatgccct caacggatgt acagtgaat catagcttta 1080
211 atgaaggcat attcctaa 1098

```

213 <210> SEQ ID NO: 7

214 <211> LENGTH: 1194

215 <212> TYPE: DNA

216 <213> ORGANISM: Homo sapiens

218 <400> SEQUENCE: 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/687,268

DATE: 10/01/2004

TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

```

219 atgtggcagc ttttagcagc agcatgctgg atgcttcttc ttggatctat gtatggttat 60
220 gacaagaaag gaaacaatgc aaaccctgaa gctaatatga atattagcca gattatttct 120
221 tactgggggtt atccttatga agagtatgat gttacaacaa aagatgggta tatccttgga 180
222 atttatagga ttccacatgg aagaggatgc ccagggagga cagctccaaa gcctgctgtg 240
223 tatttgacgc atggcttaat tgcctctgcc agtaactgga ttgcaacct gcccaacaac 300
224 agtttggtct tccttctggc agatagtggg tatgacgtgt ggttggggaa cagccgagga 360
225 aacacttggg ccagaaaaca ccttaaattg tcaccgaaat caccggaata ctgggccttc 420
226 agtttggtatg agatggctaa atatgacctt ccagccacaa tcaattttat catagagaaa 480
227 actggacaga agcgactcta ctacgtgggc cactcacaag gcaccaccat agcttttata 540
228 gcattttcta caaaccaga actggctaaa aagattaaga tattttttgc actggctcca 600
229 gttgtcacag ttaaatacac ccaagtcct atgaaaaaac taacaaccct ttccaggcga 660
230 gtagttaagg tgttgtttgg tgacaaaatg ttccacctc atacattgtt tgaccaattc 720
231 attgccacca aagtgtgcaa tcgaaagcta ttccgtcgta ttgacgcaa ctccctattt 780
232 actctgagtg gatttgatcc gcaaaactta aatatgagtc gcttggatgt ttatttgtca 840
233 cacaatcctg cgggaacatc tgttcagaat atgtgcact gggctcagct ttaccactct 900
234 gatgaattca gagcttatga ctggggaaat gacgctgata atatgaaaca ttacaatcag 960
235 agtcatcccc ctatatatga cctgactgcc atgaaagtgc ctactgctat ttgggctggg 1020
236 ggacatgatg tcctcgtaac accccaggat gtggccagga tactccctca aatcaagagt 1080
237 cttcattact ttaagctatt gccagattgg aaccactttg attttgtctg gggcctcgat 1140
238 gcccctcaac ggatgtacag tgaaatcata gctttaatga aggcataatc ctaa 1194
240 <210> SEQ ID NO: 8
241 <211> LENGTH: 11118
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 8
246 atggcgaaagc ggctctgcgc ggggagcgca ctgtgtgttc gcggcccccg gggccccgag 60
247 ccgctgctgc tggctggggt ggcgctgctg ggcgcggcgc gggcgcggga ggagggcggc 120
248 ggcggcttca gcctgcaccc gccctacttc aacctggccg agggcgcccc catcgccgc 180
249 tccgcgacct gcggagagga gggcccgggc cgcggctccc cgcgccccac cgaggacctt 240
250 tactgcaagc tggtaggggg ccccggtggc ggcggcgacc ccaaccagac catccggggc 300
251 cagtactgtg acatctgcac ggctgccaac agcaacaagg cacacccgcg gagcaatgcc 360
252 atcgatggca cggagcgctg gtggcagagt ccaccgctgt cccgcggcct ggagtacaac 420
253 gaggtcaacg tcaccctgga cctgggcccag gtcttccacg tggcctacgt cctcatcaag 480
254 ttgccaact caccocggcc ggacctctgg gtgctggagc ggtccatgga cttcgccgc 540
255 acctaccagc cctggcagtt ctttgccctc tccaagaggg actgtctgga gcggttcggg 600
256 ccacagacgc tggagcgcac cacacgggac gacgcggcca tctgcaccac cgagtactca 660
257 cgcctcgtgc ccctggagaa cggagagatc gtggtgtccc tggatgaacg acgtccgggc 720
258 gccatgaatt tctcctactc gccgctgcta cgtgagttca ccaaggccac caacgtccgc 780
259 ctgcgcttcc tgcgtaccaa cacgctgctg ggccatctca tggggaaggc gctgcgggac 840
260 cccacggcta cccgcgggta ttattacagc atcaaggata tcagcatcgg aggccgctgt 900
261 gtctgccacg gccacgcgga tgccctgcgt gccaaagacc ccacggaccc gttcaggctg 960
262 cagtgcacct gccagcaca cacctgcggg ggcacctgcg accgctgctg ccccggttct 1020
263 aatcagcagc cgtggaagcc tgcgactgcc aacagtgcc aagagtcca gtcctgtaac 1080
264 tgctacggcc atgccaccga ctgttactac gacctgagg tggaccggcg ccgcgccagc 1140
265 cagagcctgg atggcaccta tcaggggtgg ggtgtctgta tcgactgcca gcaccacac 1200
266 accggcgcta actgtgagcg ctgcctgcc ggcctctacc gctctcccaa ccacctctc 1260
267 gactcgcccc acgtctgcgc ccgctgcaac tgcgagtcgc acttcacgga tggcacctgc 1320
268 gaggacctga cgggtcgatg ctactgccg cccaacttct ctggggagcg gtgtgacgtg 1380
269 tgtgccgagg gcttcacggg ctcccaagc tgctaccgca cgcctcgtc ctccaatgac 1440

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/687,268

DATE: 10/01/2004

TIME: 12:03:50

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw